

DESCRIPTION:

PMI MODEL NUMBER PDVAN-8018-60-8-OPT25DBM IS AN 8 BIT PROGRAMMABLE 60 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.25 DB OVER THE FREQUENCY RANGE OF 8.0 GHz TO 18.0 GHz.

SPECIFICATIONS:

- FREQUENCY: 8.0 GHz TO 18.0 GHz
- MEAN ATTENUATION RANGE: 60dB
- LSB: 0.25dB
- INSERTION LOSS: 4.0dB GOAL, 5.0dB MAX
- VSWR: 2.0:1 MAX
- POWER RATING: +25dBm CW MIN (Operating)
+30dBm CW MAX (Survival)
- ATTENUATION FLATNESS:
 - @ 10 dB ±0.8 dB
 - @ 20dB ±1.1 dB
 - @ 40dB ±1.5 dB
 - @ 60dB ±1.6 dB
- SWITCHING TIME: 800 nsec MAX
- DIGITAL CONTROL: 8 BIT Binary TTL
- INPUT TRACKING: MONOTONIC
- POWER SUPPLY: +12V to +15V @ 150mA MAX
-12V to -15V @ 75mA MAX
- PWR/CTL CONNECTORS: 15 PIN Micro-D-Female (MATING CONNECTOR SUPPLIED)
- RF CONNECTORS: SMA - Female
- FINISH: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.
- SIZE (L) 2.00" X (W) 1.80" X(H) 0.50"

ENVIRONMENTAL RATINGS:

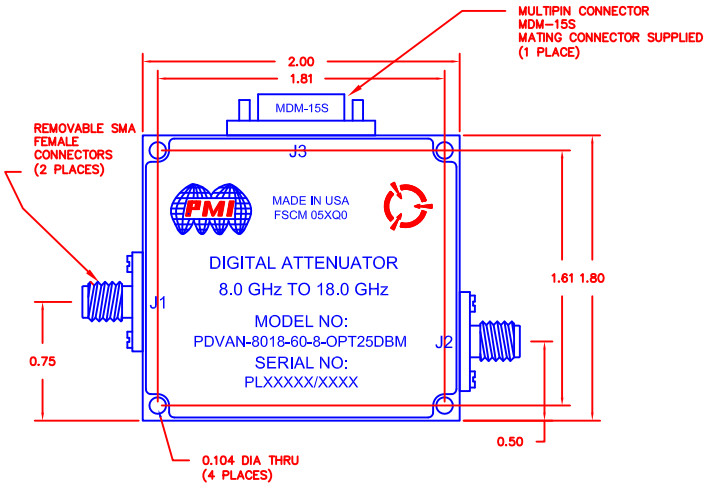
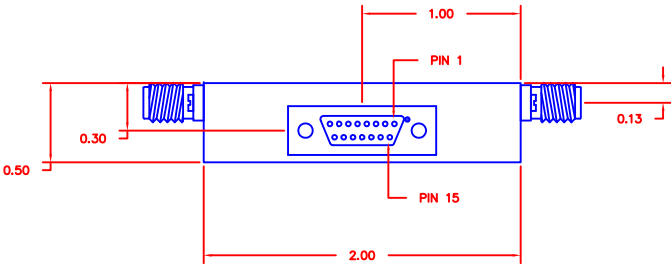
- TEMPERATURE: -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PIN NO:	J3 PIN FUNCTIONS
1	N/C
2	N/C or Latching Strobe Input *
3	N/C
4	GND
5	0.25dB (LSB)
6	0.5dB
7	1.0dB
8	2.0dB
9	4.0dB
10	8.0dB
11	16.0dB
12	32dB (MSB)
13	+VDC
14	-VDC
15	N/C

* OPTIONAL

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	09/19/18	
	A2	ECN # 13-0043	05/15/18	



PMI CONFIDENTIAL AND PROPRIETARY

- LOGIC INPUT
LOGIC "0" (BIT OFF) -0.3 to +0.8V
LOGIC "1" (BIT ON) +2.0 to +5.0V

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

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APPROVALS		DATE		TITLE	
DRAWN		03/19/18		PRODUCT FEATURE	
CHECKED				PDVAN-8018-60-8-OPT25DBM	
ISSUED					
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		27018131	
SCALE		N:S		SHEET	
				1 OF 1	